

ADY-001B

SEQUENCE LISTING

<110> Brooks, Cydney C.

<120> USE OF INSULIN RESPONSE MODULATORS IN THE
TREATMENT OF DIABETES AND INSULIN RESISTANCE

<130> ADY-001B

<150> 60/406,618

<151> 2002-08-27

<160> 3

<170> FastSEQ for Windows Version 4.0

 $\langle 210 \rangle$ 1

<211> 1025

<212> PRT

<213> Homo sapiens

<400> 1

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Glu	Pro	Cys 35	Leu	His	Pro	Leu	Glu 40	Pro	Asp	Glu	Val	Glu 45	Tyr	Glu	Pro
Arg	Gly 50	Ser	Arg	Leu	Leu	Val 55	Arg	Gly	Leu	Gly	Glu 60	His	Glu	Met	Glu
Glu 65	Asp	Glu	Glu	Asp 70	Tyr	Glu	Ser	Ser	Ala	Lys 75	Leu	Leu	Gly	Met 80	Ser
Phe	Met	Asn	Arg	Ser 85	Ser	Gly	Leu	Arg	Asn 90	Ser	Ala	Thr	Gly 95	Tyr	Arg
Gln	Ser	Pro	Asp 100	Gly	Ala	Cys	Ser	Val 105	Pro	Ser	Ala	Arg	Thr 110	Met	Val
Val	Cys	Ala	Phe 115	Val	Ile	Val	Val 120	Ala	Val	Ser	Val	Ile 125	Met	Val	Ile
Tyr	Leu 130	Leu	Pro	Arg	Cys	Thr 135	Phe	Thr	Lys	Glu	Gly 140	Cys	His	Lys	Lys
Asn 145	Gln	Ser	Ile	Gly 150	Leu	Ile	Gln	Pro	Phe	Ala 155	Thr	Asn	Gly	Lys	Leu 160
Phe	Pro	Trp	Ala	Gln 165	Ile	Arg	Leu	Pro	Thr 170	Ala	Val	Val	Pro 175	Leu	Arg
Tyr	Glu	Leu	Ser 180	Leu	His	Pro	Asn 185	Leu	Thr	Ser	Met	Thr	Phe 190	Arg	Gly
Ser	Val	Thr 195	Ile	Ser	Val	Gln	Ala 200	Leu	Gln	Val	Thr	Trp 205	Asn	Ile	Ile
Leu	His 210	Ser	Thr	Gly	His	Asn 215	Ile	Ser	Arg	Val	Thr 220	Phe	Met	Ser	Ala
Val 225	Ser	Ser	Gln	Glu	Lys 230	Gln	Ala	Glu	Ile	Leu 235	Glu	Tyr	Ala	Tyr	His 240
Gly	Gln	Ile	Ala	Ile 245	Val	Ala	Pro	Glu	Ala 250	Leu	Leu	Ala	Gly 255	His	Asn
Tyr	Thr	Leu	Lys 260	Ile	Glu	Tyr	Ser	Ala 265	Asn	Ile	Ser	Ser	Ser 270	Tyr	Tyr
Gly	Phe	Tyr	Gly	Phe	Ser	Tyr	Thr	Asp	Glu	Ser	Asn	Glu	Lys	Lys	Tyr

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		275					280				285				
Phe	Ala	Ala	Thr	Gln	Phe	Glu	Pro	Leu	Ala	Ala	Arg	Ser	Ala	Phe	Pro
	290					295					300				
Cys	Phe	Asp	Glu	Pro	Ala	Phe	Lys	Ala	Thr	Phe	Ile	Ile	Lys	Ile	Ile
305					310					315					320
Arg	Asp	Glu	Gln	Tyr	Thr	Ala	Leu	Ser	Asn	Met	Pro	Lys	Lys	Ser	Ser
				325					330						335
Val	Val	Leu	Asp	Asp	Gly	Leu	Val	Gln	Asp	Glu	Phe	Ser	Glu	Ser	Val
			340					345					350		
Lys	Met	Ser	Thr	Tyr	Leu	Val	Ala	Phe	Ile	Val	Gly	Glu	Met	Lys	Asn
		355					360					365			
Leu	Ser	Gln	Asp	Val	Asn	Gly	Thr	Leu	Val	Ser	Ile	Tyr	Ala	Val	Pro
	370					375					380				
Glu	Lys	Ile	Gly	Gln	Val	His	Tyr	Ala	Leu	Glu	Thr	Thr	Val	Lys	Leu
385					390					395					400
Leu	Glu	Phe	Phe	Gln	Asn	Tyr	Phe	Glu	Ile	Gln	Tyr	Pro	Leu	Lys	Lys
				405				410						415	
Leu	Asp	Leu	Val	Ala	Ile	Pro	Asp	Phe	Glu	Ala	Gly	Ala	Met	Glu	Asn
			420					425					430		
Trp	Gly	Leu	Leu	Thr	Phe	Arg	Glu	Glu	Thr	Leu	Leu	Tyr	Asp	Ser	Asn
	435						440					445			
Thr	Ser	Ser	Met	Ala	Asp	Arg	Lys	Leu	Val	Thr	Lys	Ile	Ile	Ala	His
	450					455					460				
Glu	Leu	Ala	His	Gln	Trp	Phe	Gly	Asn	Leu	Val	Thr	Met	Lys	Trp	Trp
465					470					475					480
Asn	Asp	Leu	Trp	Leu	Asn	Glu	Gly	Phe	Ala	Thr	Phe	Met	Glu	Tyr	Phe
				485				490						495	
Ser	Leu	Glu	Lys	Ile	Phe	Lys	Glu	Leu	Ser	Ser	Tyr	Glu	Asp	Phe	Leu
			500					505					510		
Asp	Ala	Arg	Phe	Lys	Thr	Met	Lys	Lys	Asp	Ser	Leu	Asn	Ser	Ser	His
	515						520					525			
Pro	Ile	Ser	Ser	Ser	Val	Gln	Ser	Ser	Glu	Gln	Ile	Glu	Glu	Met	Phe
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Asp	Ser	Leu	Ser	Tyr	Phe	Lys	Gly	Ser	Ser	Leu	Leu	Leu	Met	Leu	Lys
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Thr	Tyr	Leu	Ser	Glu	Asp	Val	Phe	Gln	His	Ala	Val	Val	Leu	Tyr	Leu
				565				570						575	
His	Asn	His	Ser	Tyr	Ala	Ser	Ile	Gln	Ser	Asp	Asp	Leu	Trp	Asp	Ser
			580					585					590		
Phe	Asn	Glu	Val	Thr	Asn	Gln	Thr	Leu	Asp	Val	Lys	Arg	Met	Met	Lys
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Thr	Trp	Thr	Leu	Gln	Lys	Gly	Phe	Pro	Leu	Val	Thr	Val	Gln	Lys	Lys
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Gly	Lys	Glu	Leu	Phe	Ile	Gln	Gln	Glu	Arg	Phe	Phe	Leu	Asn	Met	Lys
625					630					635					640
Pro	Glu	Ile	Gln	Pro	Ser	Asp	Thr	Ser	Tyr	Leu	Trp	His	Ile	Pro	Leu
				645					650					655	
Ser	Tyr	Val	Thr	Glu	Gly	Arg	Asn	Tyr	Ser	Lys	Tyr	Gln	Ser	Val	Ser
		660						665					670		
Leu	Leu	Asp	Lys	Lys	Ser	Gly	Val	Ile	Asn	Leu	Thr	Glu	Glu	Val	Leu
		675					680					685			
Trp	Val	Lys	Val	Asn	Ile	Asn	Met	Asn	Gly	Tyr	Tyr	Ile	Val	His	Tyr
	690					695					700				
Ala	Asp	Asp	Asp	Trp	Glu	Ala	Leu	Ile	His	Gln	Leu	Lys	Ile	Asn	Pro
705					710					715					720
Tyr	Val	Leu	Ser	Asp	Lys	Asp	Arg	Ala	Asn	Leu	Ile	Asn	Asn	Ile	Phe
				725					730					735	

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Glu Leu Ala Gly Leu Gly Lys Val Pro Leu Lys Arg Ala Phe Asp Leu
 740 745 750
 Ile Asn Tyr Leu Gly Asn Glu Asn His Thr Ala Pro Ile Thr Glu Ala
 755 760 765
 Leu Phe Gln Thr Asp Leu Ile Tyr Asn Leu Leu Glu Lys Leu Gly Tyr
 770 775 780
 Met Asp Leu Ala Ser Arg Leu Val Thr Arg Val Phe Lys Leu Leu Gln
 785 790 795 800
 Asn Gln Ile Gln Gln Gln Thr Trp Thr Asp Glu Gly Thr Pro Ser Met
 805 810 815
 Arg Glu Leu Arg Ser Ala Leu Leu Glu Phe Ala Cys Thr His Asn Leu
 820 825 830
 Gly Asn Cys Ser Thr Thr Ala Met Lys Leu Phe Asp Asp Trp Met Ala
 835 840 845
 Ser Asn Gly Thr Gln Ser Leu Pro Thr Asp Val Met Thr Thr Val Phe
 850 855 860
 Lys Val Gly Ala Lys Thr Asp Lys Gly Trp Ser Phe Leu Leu Gly Lys
 865 870 875 880
 Tyr Ile Ser Ile Gly Ser Glu Ala Glu Lys Asn Lys Ile Leu Glu Ala
 885 890 895
 Leu Ala Ser Ser Glu Asp Val Arg Lys Leu Tyr Trp Leu Met Lys Ser
 900 905 910
 Ser Leu Asn Gly Asp Asn Phe Arg Thr Gln Lys Leu Ser Phe Ile Ile
 915 920 925
 Arg Thr Val Gly Arg His Phe Pro Gly His Leu Leu Ala Trp Asp Phe
 930 935 940
 Val Lys Glu Asn Trp Asn Lys Leu Val Gln Lys Phe Pro Leu Gly Ser
 945 950 955 960
 Tyr Thr Ile Gln Asn Ile Val Ala Gly Ser Thr Tyr Leu Phe Ser Thr
 965 970 975
 Lys Thr His Leu Ser Glu Val Gln Ala Phe Phe Glu Asn Gln Ser Glu
 980 985 990
 Ala Thr Phe Arg Leu Arg Cys Val Gln Glu Ala Leu Glu Val Ile Gln
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 Leu Asn Ile Gln Trp Met Glu Lys Asn Leu Lys Ser Leu Thr Trp Trp
 1010 1015 1020
 Leu
 1025

<210> 2

<211> 1025

<212> PRT

<213> Rattus norvegicus

<400> 2

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 20 25 30
 Glu Pro Cys Leu His Pro Leu Glu Pro Asp Glu Val Glu Tyr Glu Pro
 35 40 45
 Arg Gly Ser Arg Leu Leu Val Arg Gly Leu Gly Glu His Glu Met Asp
 50 55 60
 Glu Asp Glu Glu Asp Tyr Glu Ser Ser Ala Lys Leu Leu Gly Met Ser
 65 70 75 80
 Phe Met Asn Arg Ser Ser Gly Leu Arg Asn Ser Ala Thr Gly Tyr Arg

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				85					90					95			
Gln	Ser	Pro	Asp	Gly	Thr	Cys	Ser	Val	Pro	Ser	Ala	Arg	Thr	Leu	Val		
			100					105					110				
Ile	Cys	Val	Phe	Val	Ile	Val	Val	Ala	Val	Ser	Val	Ile	Met	Val	Ile		
		115					120					125					
Tyr	Leu	Leu	Pro	Arg	Cys	Thr	Phe	Thr	Lys	Glu	Gly	Cys	His	Lys	Thr		
	130					135					140						
Asn	Gln	Ser	Ala	Glu	Leu	Ile	Gln	Pro	Ile	Ala	Thr	Asn	Gly	Lys	Val		
145					150					155					160		
Phe	Pro	Trp	Ala	Gln	Ile	Arg	Leu	Pro	Thr	Ala	Ile	Ile	Pro	Gln	Arg		
			165					170						175			
Tyr	Glu	Leu	Ser	Leu	His	Pro	Asn	Leu	Thr	Ser	Met	Thr	Phe	Arg	Gly		
		180					185						190				
Ser	Val	Thr	Ile	Ser	Leu	Gln	Ala	Leu	Gln	Asp	Thr	Arg	Asp	Ile	Ile		
		195				200						205					
Leu	His	Ser	Thr	Gly	His	Asn	Ile	Ser	Ser	Val	Thr	Phe	Met	Ser	Ala		
	210					215					220						
Val	Ser	Ser	Gln	Glu	Lys	Gln	Val	Glu	Ile	Leu	Glu	Tyr	Pro	Tyr	His		
225					230					235					240		
Glu	Gln	Ile	Ala	Val	Val	Ala	Pro	Glu	Ser	Leu	Leu	Thr	Gly	His	Asn		
			245					250						255			
Tyr	Thr	Leu	Lys	Ile	Glu	Tyr	Ser	Ala	Asn	Ile	Ser	Asn	Ser	Tyr	Tyr		
		260					265							270			
Gly	Phe	Tyr	Gly	Ile	Thr	Tyr	Thr	Asp	Lys	Ser	Asn	Glu	Lys	Lys	Asn		
	275					280						285					
Phe	Ala	Ala	Thr	Gln	Phe	Glu	Pro	Leu	Ala	Ala	Arg	Ser	Ala	Phe	Pro		
	290					295					300						
Cys	Phe	Asp	Glu	Pro	Ala	Phe	Lys	Ala	Thr	Phe	Ile	Ile	Lys	Ile	Thr		
305					310					315					320		
Arg	Asp	Glu	His	His	Thr	Ala	Leu	Ser	Asn	Met	Pro	Lys	Lys	Ser	Ser		
			325					330						335			
Val	Pro	Thr	Glu	Glu	Gly	Leu	Ile	Gln	Asp	Glu	Phe	Ser	Glu	Ser	Val		
		340						345					350				
Lys	Met	Ser	Thr	Tyr	Leu	Val	Ala	Phe	Ile	Val	Gly	Glu	Met	Arg	Asn		
	355					360						365					
Leu	Ser	Gln	Asp	Val	Asn	Gly	Thr	Leu	Val	Ser	Val	Tyr	Ala	Val	Pro		
	370					375					380						
Glu	Lys	Ile	Asp	Gln	Val	Tyr	His	Ala	Leu	Asp	Thr	Thr	Val	Lys	Leu		
385					390					395					400		
Leu	Glu	Phe	Tyr	Gln	Asn	Tyr	Phe	Glu	Ile	Gln	Tyr	Pro	Leu	Lys	Lys		
			405					410						415			
Leu	Asp	Leu	Val	Ala	Ile	Pro	Asp	Phe	Glu	Ala	Gly	Ala	Met	Glu	Asn		
		420						425					430				
Trp	Gly	Leu	Leu	Thr	Phe	Arg	Glu	Glu	Thr	Leu	Leu	Tyr	Asp	Asn	Ala		
	435					440						445					
Thr	Ser	Ser	Val	Ala	Asp	Arg	Lys	Leu	Val	Thr	Lys	Ile	Ile	Ala	His		
	450					455					460						
Glu	Leu	Ala	His	Gln	Trp	Phe	Gly	Asn	Leu	Val	Thr	Met	Gln	Trp	Trp		
465					470					475					480		
Asn	Asp	Leu	Trp	Leu	Asn	Glu	Gly	Phe	Ala	Thr	Phe	Met	Glu	Tyr	Phe		
			485					490						495			
Ser	Val	Glu	Lys	Ile	Phe	Lys	Glu	Leu	Asn	Ser	Tyr	Glu	Asp	Phe	Leu		
		500						505					510				
Asp	Ala	Arg	Phe	Lys	Thr	Met	Arg	Lys	Asp	Ser	Leu	Asn	Ser	Ser	His		
	515						520					525					
Pro	Ile	Ser	Ser	Ser	Val	Gln	Ser	Ser	Glu	Gln	Ile	Glu	Glu	Met	Phe		
	530					535					540						

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Asp	Ser	Leu	Ser	Tyr	Phe	Lys	Gly	Ala	Ser	Leu	Leu	Leu	Met	Leu	Lys
545					550					555					560
Ser	Tyr	Leu	Ser	Glu	Asp	Val	Phe	Gln	His	Ala	Ile	Ile	Leu	Tyr	Leu
				565					570						575
His	Asn	His	Ser	Tyr	Ala	Ala	Ile	Gln	Ser	Asp	Asp	Leu	Trp	Asp	Ser
			580					585					590		
Phe	Asn	Glu	Val	Thr	Gly	Lys	Thr	Leu	Asp	Val	Lys	Lys	Met	Met	Lys
		595					600					605			
Thr	Trp	Thr	Leu	Gln	Lys	Gly	Phe	Pro	Leu	Val	Thr	Val	Gln	Arg	Lys
	610					615					620				
Gly	Thr	Glu	Leu	Leu	Leu	Gln	Gln	Glu	Arg	Phe	Phe	Pro	Ser	Met	Gln
625					630					635					640
Pro	Glu	Ile	Gln	Asp	Ser	Asp	Thr	Ser	His	Leu	Trp	His	Ile	Pro	Ile
				645					650						655
Ser	Tyr	Val	Thr	Asp	Gly	Arg	Asn	Tyr	Ser	Glu	Tyr	Arg	Ser	Val	Ser
			660					665					670		
Leu	Leu	Asp	Lys	Lys	Ser	Asp	Val	Ile	Asn	Leu	Thr	Glu	Gln	Val	Gln
		675					680					685			
Trp	Val	Lys	Val	Asn	Thr	Asn	Met	Thr	Gly	Tyr	Tyr	Ile	Val	His	Tyr
	690					695					700				
Ala	His	Asp	Gly	Trp	Ala	Ala	Leu	Ile	Asn	Gln	Leu	Lys	Arg	Asn	Pro
705					710					715					720
Tyr	Val	Leu	Ser	Asp	Lys	Asp	Arg	Ala	Asn	Leu	Ile	Asn	Asn	Ile	Phe
				725					730					735	
Glu	Leu	Ala	Gly	Leu	Gly	Lys	Val	Pro	Leu	Gln	Met	Ala	Phe	Asp	Leu
			740					745					750		
Ile	Asp	Tyr	Leu	Arg	Asn	Glu	Thr	His	Thr	Ala	Pro	Ile	Thr	Glu	Ala
		755					760						765		
Leu	Phe	Gln	Thr	Asp	Leu	Ile	Tyr	Asn	Leu	Leu	Glu	Lys	Leu	Gly	His
	770					775					780				
Met	Asp	Leu	Ser	Ser	Arg	Leu	Val	Thr	Arg	Val	His	Lys	Leu	Leu	Gln
785					790					795					800
Asn	Gln	Ile	Gln	Gln	Gln	Thr	Trp	Thr	Asp	Glu	Gly	Thr	Pro	Ser	Met
				805					810					815	
Arg	Glu	Leu	Arg	Ser	Ala	Leu	Leu	Glu	Phe	Ala	Cys	Ala	His	Ser	Leu
				820					825					830	
Glu	Asn	Cys	Thr	Thr	Met	Ala	Thr	Lys	Leu	Phe	Asp	Gly	Trp	Met	Ala
		835					840					845			
Ser	Asn	Gly	Thr	Gln	Ser	Leu	Pro	Thr	Asp	Val	Met	Thr	Thr	Val	Phe
	850					855					860				
Lys	Val	Gly	Ala	Arg	Thr	Glu	Lys	Gly	Trp	Leu	Phe	Leu	Phe	Ser	Met
865					870					875					880
Tyr	Ser	Ser	Met	Gly	Ser	Glu	Ala	Glu	Lys	Asp	Lys	Ile	Leu	Glu	Ala
				885					890					895	
Leu	Ala	Ser	Ser	Ala	Asp	Ala	His	Lys	Leu	Tyr	Trp	Leu	Met	Lys	Ser
			900					905					910		
Ser	Leu	Asp	Gly	Asp	Ile	Ile	Arg	Thr	Gln	Lys	Leu	Ser	Leu	Ile	Ile
		915					920						925		
Arg	Thr	Val	Gly	Arg	Gln	Phe	Pro	Gly	His	Leu	Leu	Ala	Trp	Asp	Phe
	930					935						940			
Val	Lys	Glu	Asn	Trp	Asn	Lys	Leu	Val	His	Lys	Phe	His	Leu	Gly	Ser
945					950					955					960
Tyr	Thr	Ile	Gln	Ser	Ile	Val	Ala	Gly	Ser	Thr	His	Leu	Phe	Ser	Thr
				965					970					975	
Lys	Thr	His	Leu	Ser	Glu	Val	Gln	Glu	Phe	Phe	Glu	Asn	Gln	Ser	Glu
			980					985					990		
Ala	Thr	Leu	Gln	Leu	Arg	Cys	Val	Gln	Glu	Ala	Phe	Glu	Val	Ile	Glu

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Leu Asn Ile Gln Trp Met Ala Arg Asn Leu Lys Thr Leu Thr Leu Trp
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Leu
1025

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<210> 3
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<212> PRT
<213> Homo sapiens

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His Thr Glu Ala Glu Thr Ile Gln Lys Leu Cys Asp Arg Val Ala Ser
    20          25          30
Ser Thr Leu Leu Asp Asp Arg Arg Asn Ala Val Arg Ala Leu Lys Ser
    35          40          45
Leu Ser Lys Lys Tyr Arg Leu Glu Val Gly Ile Gln Ala Met Glu His
    50          55          60
Leu Ile His Val Leu Gln Thr Asp Arg Ser Asp Ser Glu Ile Ile Gly
    65          70          75          80
Tyr Ala Leu Asp Ile Leu Tyr Asn Ile Ile Ser Asn Glu Glu Glu Glu
    85          90          95
Glu Val Glu Glu Asn Ser Thr Arg Gln Ser Glu Asp Leu Gly Ser Gln
    100          105          110
Phe Thr Glu Ile Phe Ile Lys Gln Gln Glu Asn Val Thr Leu Leu Leu
    115          120          125
Ser Leu Leu Glu Glu Phe Asp Phe His Val Arg Trp Pro Gly Val Lys
    130          135          140
Leu Leu Thr Ser Leu Leu Lys Gln Leu Gly Pro Gln Val Gln Gln Ile
    145          150          155          160
Ile Leu Val Ser Pro Met Gly Val Ser Arg Leu Met Asp Leu Leu Ala
    165          170          175
Asp Ser Arg Glu Val Ile Arg Asn Asp Gly Val Leu Leu Leu Gln Ala
    180          185          190
Leu Thr Arg Ser Asn Gly Ala Ile Gln Lys Ile Val Ala Phe Glu Asn
    195          200          205
Ala Phe Glu Arg Leu Leu Asp Ile Ile Ser Glu Glu Gly Asn Ser Asp
    210          215          220
Gly Gly Ile Val Val Glu Asp Cys Leu Ile Leu Leu Gln Asn Leu Leu
    225          230          235          240
Lys Asn Asn Asn Ser Asn Gln Asn Phe Phe Lys Glu Gly Ser Tyr Ile
    245          250          255
Gln Arg Met Lys Pro Trp Phe Glu Val Gly Asp Glu Asn Ser Gly Trp
    260          265          270
Ser Ala Gln Lys Val Thr Asn Leu His Leu Met Leu Gln Leu Val Arg
    275          280          285
Val Leu Val Ser Pro Thr Asn Pro Pro Gly Ala Thr Ser Ser Cys Gln
    290          295          300
Lys Ala Met Phe Gln Cys Gly Leu Leu Gln Gln Leu Cys Thr Ile Leu
    305          310          315          320
Met Ala Thr Gly Val Pro Ala Asp Ile Leu Thr Glu Thr Ile Asn Thr
    325          330          335
Val Ser Glu Val Ile Arg Gly Cys Gln Val Asn Gln Asp Tyr Phe Ala
    340          345          350

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Ser	Val	Asn	Ala	Pro	Ser	Asn	Pro	Pro	Arg	Pro	Ala	Ile	Val	Val	Leu
		355					360					365			
Leu	Met	Ser	Met	Val	Asn	Glu	Arg	Gln	Pro	Phe	Val	Leu	Arg	Cys	Ala
	370					375					380				
Val	Leu	Tyr	Cys	Phe	Gln	Cys	Phe	Leu	Tyr	Lys	Asn	Gln	Lys	Gly	Gln
385					390					395					400
Gly	Glu	Ile	Val	Ser	Thr	Leu	Leu	Pro	Ser	Thr	Ile	Asp	Ala	Thr	Gly
				405					410					415	
Asn	Ser	Val	Ser	Ala	Gly	Gln	Leu	Leu	Cys	Gly	Gly	Leu	Phe	Ser	Thr
			420					425					430		
Asp	Ser	Leu	Ser	Asn	Trp	Cys	Ala	Ala	Val	Ala	Leu	Ala	His	Ala	Leu
	435						440					445			
Gln	Glu	Asn	Ala	Thr	Gln	Lys	Glu	Gln	Leu	Leu	Arg	Val	Gln	Leu	Ala
	450					455					460				
Thr	Ser	Ile	Gly	Asn	Pro	Pro	Val	Ser	Leu	Leu	Gln	Gln	Cys	Thr	Asn
465					470					475					480
Ile	Leu	Ser	Gln	Gly	Ser	Lys	Ile	Gln	Thr	Arg	Val	Gly	Leu	Leu	Met
			485						490					495	
Leu	Leu	Cys	Thr	Trp	Leu	Ser	Asn	Cys	Pro	Ile	Ala	Val	Thr	His	Phe
			500					505					510		
Leu	His	Asn	Ser	Ala	Asn	Val	Pro	Phe	Leu	Thr	Gly	Gln	Ile	Ala	Glu
		515					520					525			
Asn	Leu	Gly	Glu	Glu	Glu	Gln	Leu	Val	Gln	Gly	Leu	Cys	Ala	Leu	Leu
	530					535					540				
Leu	Gly	Ile	Ser	Ile	Tyr	Phe	Asn	Asp	Asn	Ser	Leu	Glu	Ser	Tyr	Met
545					550					555					560
Lys	Glu	Lys	Leu	Lys	Gln	Leu	Ile	Glu	Lys	Arg	Ile	Gly	Lys	Glu	Asn
				565					570					575	
Phe	Ile	Glu	Lys	Leu	Gly	Phe	Ile	Ser	Lys	His	Glu	Leu	Tyr	Ser	Arg
			580					585					590		
Ala	Ser	Gln	Lys	Pro	Gln	Pro	Asn	Phe	Pro	Ser	Pro	Glu	Tyr	Met	Ile
		595					600					605			
Phe	Asp	His	Glu	Phe	Thr	Lys	Leu	Val	Lys	Glu	Leu	Glu	Gly	Val	Ile
	610					615					620				
Thr	Lys	Ala	Ile	Tyr	Lys	Ser	Ser	Glu	Glu	Asp	Lys	Lys	Glu	Glu	Glu
625					630					635					640
Val	Lys	Lys	Thr	Leu	Glu	Gln	His	Asp	Asn	Ile	Val	Thr	His	Tyr	Lys
			645					650						655	
Asn	Met	Ile	Arg	Glu	Gln	Asp	Leu	Gln	Leu	Glu	Glu	Leu	Arg	Gln	Gln
		660					665						670		
Val	Ser	Thr	Leu	Lys	Cys	Gln	Asn	Glu	Gln	Leu	Gln	Thr	Ala	Val	Thr
		675					680					685			
Gln	Gln	Val	Ser	Gln	Ile	Gln	Gln	His	Lys	Asp	Gln	Tyr	Asn	Leu	Leu
	690					695					700				
Lys	Ile	Gln	Leu	Gly	Lys	Asp	Asn	Gln	His	Gln	Gly	Ser	Tyr	Ser	Glu
705					710					715					720
Gly	Ala	Gln	Met	Asn	Gly	Ile	Gln	Pro	Glu	Glu	Ile	Gly	Arg	Leu	Arg
			725					730						735	
Glu	Glu	Ile	Glu	Glu	Leu	Lys	Arg	Asn	Gln	Glu	Leu	Leu	Gln	Ser	Gln
			740					745					750		
Leu	Thr	Glu	Lys	Asp	Ser	Met	Ile	Glu	Asn	Met	Lys	Ser	Ser	Gln	Thr
	755					760						765			
Ser	Gly	Thr	Asn	Glu	Gln	Ser	Ser	Ala	Ile	Val	Ser	Ala	Arg	Asp	Ser
	770					775					780				
Glu	Gln	Val	Ala	Glu	Leu	Lys	Gln	Glu	Leu	Ala	Thr	Leu	Lys	Ser	Gln
785					790					795					800
Leu	Asn	Ser	Gln	Ser	Val	Glu	Ile	Thr	Lys	Leu	Gln	Thr	Glu	Lys	Gln

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				805					810					815			
Glu	Leu	Leu	Gln	Lys	Thr	Glu	Ala	Phe	Ala	Lys	Ser	Val	Glu	Val	Gln		
			820						825					830			
Gly	Glu	Thr	Glu	Thr	Ile	Ile	Ala	Thr	Lys	Thr	Thr	Asp	Val	Glu	Gly		
		835					840					845					
Arg	Leu	Ser	Ala	Leu	Leu	Gln	Glu	Thr	Lys	Glu	Leu	Lys	Asn	Glu	Ile		
	850					855					860						
Lys	Ala	Leu	Ser	Glu	Glu	Arg	Thr	Ala	Ile	Lys	Glu	Gln	Leu	Asp	Ser		
865					870					875					880		
Ser	Asn	Ser	Thr	Ile	Ala	Ile	Leu	Gln	Thr	Glu	Lys	Asp	Lys	Leu	Glu		
			885						890					895			
Leu	Glu	Ile	Thr	Asp	Ser	Lys	Lys	Glu	Gln	Asp	Asp	Leu	Leu	Val	Leu		
			900					905						910			
Leu	Ala	Asp	Gln	Asp	Gln	Lys	Ile	Leu	Ser	Leu	Lys	Asn	Lys	Leu	Lys		
		915					920					925					
Asp	Leu	Gly	His	Pro	Val	Glu	Glu	Glu	Asp	Glu	Leu	Glu	Ser	Gly	Asp		
	930					935				940							
Gln	Glu	Asp	Glu	Asp	Asp	Glu	Ser	Glu	Asp	Pro	Gly	Lys	Asp	Leu	Asp		
945					950					955					960		
His	Ile																